

**WHAT IS CLAIMED IS:**

1. A combination of a kit for air filtration and an air-conditioning unit, comprising:

an air-conditioning unit of the type installed inside a room, having a front, back, top, bottom and side walls, and

a compartment having an air intake port, air outlet aperture and means for engaging with a wall of said air-conditioning unit, so as to form a single body when engaged;

said compartment being sized to enclose a power source and an air filter attached at its air inlet to said port for propelling filtered air through said aperture into said air-conditioning unit.

2. The combination as claimed in claim 1, wherein said compartment is configured to substantially match the size of one of the walls of said air-conditioning unit.

3. The combination as claimed in claim 1, wherein said compartment is fitted with means for installing the compartment on a wall of a room and engaging said air-conditioning unit.

4. The combination as claimed in claim 1, wherein said compartment is engageable with the aperture facing the back wall of said air-conditioning unit.

5. The combination as claimed in claim 1, wherein said power source and air filter are mounted on a shelf having a side portion and said shelf and side portion are slidably retrievable from the side of said compartment.

6. The combination as claimed in claim 1, wherein said kit further comprises an electronic control unit for selectively operating said air filter.

7. The combination as claimed in claim 6, wherein said electronic control unit is mounted inside said compartment.

8. The combination as claimed in claim 1, wherein said power source is a battery.

9. The combination as claimed in claim 8, wherein said battery is a rechargeable battery.

10. The combination as claimed in claim 1, wherein said kit further comprising an air blower having a connector for engaging said air intake port and being adapted to suck air from the outside of said room.

11. A combination of an air-conditioning unit and an air filtering assembly, comprising:

an air conditioning unit of the type installed inside a room, having an air intake aperture;

an air filter having an inlet port and an outlet opening, said opening being in fluid communication with said aperture;

a power source associated with at least said air conditioning system, and an electronically controlled unit for selectively operating the air-conditioning unit, the circulation of fresh filtered air or the propulsion of both, filtered and conditioned air.

12. The combination as claimed in claim 11, wherein said power source is a battery.

13. The combination as claimed in claim 12, wherein said battery is a rechargeable battery.

14. The combination as claimed in claim 11, wherein said combination further comprising an air blower having a connector for engaging said air inlet port and being adapted to suck air from the outside of said room.

15. A kit to be associated with an air-conditioning unit, comprising a compartment housing an air filter connectable to a blower for sucking in air from the outside of a protected space, and a power source for operating said air-conditioning unit and blower.